



$$\text{Eq. 1 } \sim \text{MAX POWER} = (\text{MAX CURRENT})^2(55 + R - \text{ON} + 121)$$

$$\text{Eq. 2 } \sim \text{MAX CURRENT} = \frac{3.15}{55 + R - \text{ON} + 121}$$

$$\text{Eq. 3 } \sim R - \text{ON} = 4.5\Omega \pm 50\%$$

$$\text{Eq. 4 } \sim \text{MAX CURRENT} = \frac{3.15}{55 + 2.25 + 121} = 17.6 \text{ ma}$$

$$\text{Eq. 5 } \sim \text{MAX POWER} = (17.6 \text{ ma})^2 (55 + 2.25 + 121) = 55.6 \text{ mw}$$

$$\begin{aligned} \text{Eq. 6 } \sim \text{Compare: EDGE 692} \\ \text{MIN POWER PER CHIP} &= 1.5 \text{ WATTS} \\ \text{MAX POWER PER CHIP} &= 3.0 \text{ WATTS} \\ \text{TWO TRANSLATORS PER CHIP} \end{aligned}$$

$$\text{Eq. 7 } \sim 0.055 \text{ WATTS MAX VS } 1.50 \text{ WATTS MAX}$$

$$\text{Eq. 8 } \sim 0.000 \text{ WATTS MIN VS } 0.75 \text{ WATTS MIN}$$

$$\text{Eq. 9 } \sim 0.027 \text{ WATTS AVE VS } 1.12 \text{ WATTS AVE}$$

Figure 6